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BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Develop
an Electricity Integrated Resource
Planning Framework and to Coordinate
and Refine Long-Term Procurement
Planning Requirements.

Rulemaking 16-02-007
(Filed February 11, 2016)

**RULING OF ASSIGNED COMMISSIONER AND ADMINISTRATIVE LAW
JUDGE REQUESTING COMMENTS ON DISADVANTAGED
COMMUNITIES AND OTHER ASPECTS OF SENATE BILL 350, AND
MODIFYING PROCEEDING SCHEDULE**

Summary

This ruling seeks party input on aspects of the Senate Bill (SB) 350 (DeLeón, 2015) requirements that are not directly addressed as part of the ongoing informal staff efforts in this proceeding. While those ongoing staff efforts will lead to a formal staff proposal to be issued in early 2017 for formal comment in this proceeding, this ruling seeks formal comments from parties in parallel on certain aspects of the SB 350 requirements, related to disadvantaged communities, resilience of the bulk transmission and distribution systems, and demand-side energy management.

In addition, this ruling modifies the procedural schedule from the scoping memo, so that parties are updated on the likely timing of proceeding activities going forward.

Comments from interested parties are invited in response to questions posed in the body of this ruling. Comments shall be due no later than February 17, 2017, with reply comments due no later than February 27, 2017.

1. Background

Informal activities have been ongoing in this proceeding throughout the Fall of 2016, including the conduct of several workshops and webinars and distribution of staff papers and other materials related to scenario development for integrated resource planning (IRP), setting of greenhouse gas reduction targets, and overall conduct of the IRP-related activities. These efforts are expected to culminate in a staff proposal issued in this proceeding for formal comment by parties in early 2017.

While these staff activities have touched on aspects of SB 350's requirements related to disadvantaged communities, the transmission and distribution grid, and demand-side management, those topics have not been the central focus of the work thus far in the proceeding. The purpose of this ruling is to seek input separately and more directly on those aspects of SB 350.

In addition, since the issuance of the scoping memo in this proceeding in May 2016, our approach to implementing the IRP aspects of SB 350 has evolved, and the schedule for the proceeding needs to be updated to accommodate the various activities ongoing and expected in the future. Thus, this ruling provides an updated expected schedule for 2017.

2. Issues Related to Disadvantaged Communities

SB 350, as well as the Public Utilities Code and Public Resources Code, contains numerous references to impacts on disadvantaged communities. Some requirements apply to the Commission, while others involve activities of the

California Energy Commission (CEC) or the California Air Resources Board (CARB), with whom we are coordinating closely on this proceeding.

While this ruling is asking for feedback specifically on the requirements related to disadvantaged communities in the context of IRP, to provide broader context, Table 1 below summarizes the complete requirements on the Commission, while Table 2 includes other requirements that apply to the CEC, CARB, or the California Independent System Operator (CAISO).

Table 1. Public Utilities Code Section Requirements for the Commission Related to Disadvantaged Communities

Public Utilities Code Section	Requirement(s)	Statutory Deadline
399.13(a)(7)	Procuring renewable energy resources: <ul style="list-style-type: none"> • In soliciting and procuring eligible renewable energy resources for California-based projects, each electrical corporation shall give preference to renewable energy projects that provide environmental and economic benefits to communities afflicted with poverty or high unemployment, or that suffer from high emission levels of toxic air contaminants, criteria air pollutants, and greenhouse gases. 	None
400	Establishment of Disadvantaged Communities Advisory Group, accounting for benefits of distributed generation on disadvantaged communities, and reviewing various other programs listed for benefits to disadvantaged communities: <ul style="list-style-type: none"> • The commission and the Energy Commission shall do all of the following in furtherance of meeting the state's clean energy and pollution reduction 	None

Public Utilities Code Section	Requirement(s)	Statutory Deadline
	<p>objectives:</p> <ul style="list-style-type: none"> ○ (a)Take into account the use of distributed generation to the extent that it provides economic and environmental benefits in disadvantaged communities as identified pursuant to Section 39711 of the Health and Safety Code. ○ (d)Review technology incentive, research, development, deployment, and market facilitation programs overseen by the commission and the Energy Commission and make recommendations to advance state clean energy and pollution reduction objectives and provide benefits to disadvantaged communities as identified pursuant to Section 39711 of the Health and Safety Code. ○ (g) Establish an advisory group consisting of representatives from disadvantaged communities identified in Section 39711 of the Health and Safety Code. The advisory group shall review and provide advice on programs proposed to achieve clean energy and pollution reduction and determine whether those proposed programs will be effective and useful in disadvantaged communities. 	
454.52 (a)(1)	<p>IRP must minimize air pollutants and greenhouse gases with early priority on disadvantaged communities:</p> <ul style="list-style-type: none"> • Commencing in 2017, and to be updated regularly thereafter, the commission shall adopt a process for each load-serving entity, as defined in Section 380, to file an integrated resource plan, and a schedule for periodic updates to the plan, to ensure that load-serving entities do the following:... 	End of 2017

Public Utilities Code Section	Requirement(s)	Statutory Deadline
	<ul style="list-style-type: none"> • (F) Strengthen the diversity, sustainability, and resilience of the bulk transmission and distributions systems, and local communities. • (H) Minimize localized air pollutants and other greenhouse gas emissions, with early priority on disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code. 	
454.55(a)(2)	<p>Report to Legislature on strategies for maximizing electricity energy efficiency savings in disadvantaged communities:</p> <ul style="list-style-type: none"> • By July 1, 2019, and every four years thereafter, the commission shall, pursuant to Section 9795 of the Government Code, report to the Legislature on the progress toward achieving the targets established pursuant to subdivision (a). The commission shall include specific strategies for, and an update on, progress toward maximizing the contribution of <i>electricity</i> efficiency savings in disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code. (<i>emphasis added</i>) 	July 1, 2019
454.56(d)	<p>Report to Legislature on strategies for maximizing natural gas energy efficiency savings in disadvantaged communities:</p> <ul style="list-style-type: none"> • By July 1, 2019, and every four years thereafter, the commission shall, pursuant to Section 9795 of the Government Code, report to the Legislature on the progress toward achieving the targets establish pursuant to subdivision (a). The commission shall include specific strategies for, and an update on, progress toward maximizing the contribution of <i>[natural gas]</i> energy efficiency savings in disadvantaged communities identified pursuant to 	July 1, 2019

Public Utilities Code Section	Requirement(s)	Statutory Deadline
	Section 39711 of the Health and Safety Code. (<i>emphasis added</i>)	
701.1(c)	<p>Consideration of air quality when calculating the cost-effectiveness of energy resources:</p> <ul style="list-style-type: none"> • In calculating the cost-effectiveness of energy resources, including conservation and load management options, the commission shall include, in addition to other ratepayer protection objectives, a value for any costs and benefits to the environment, including air quality. The commission shall ensure that any values it develops pursuant to this section are consistent with values developed by the State Energy Resources Conservation and Development Commission pursuant to Section 25000.1 of the Public Resources Code. However, if the commission determines that a value developed pursuant to this subdivision is not consistent with a value developed by the State Energy Resources Conservation and Development Commission pursuant to subdivision (c) of Section 25000.1 of the Public Resources Code, the commission may nonetheless use this value if, in the appropriate record of its proceedings, it states its reasons for using the value it has selected. 	None
740.8	<p>Creating high quality jobs and other economic benefits for disadvantaged communities included as a ratepayer interest:</p> <ul style="list-style-type: none"> • As used in Section 740.3 or 740.12, “interests” of ratepayers, short- or long-term, mean direct benefits that are specific to ratepayers, consistent with both of the following: <ul style="list-style-type: none"> ○ (a) Safer, more reliable, or less costly gas or 	None

Public Utilities Code Section	Requirement(s)	Statutory Deadline
	<p>electrical service, consistent with Section 451, including electrical service that is safer, more reliable, or less costly due to either improved use of the electric system or improved integration of renewable energy generation.</p> <ul style="list-style-type: none"> ○ (b) Any of the following... (5) Creating high-quality jobs or other economic benefits, including in disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code. 	
740.12(a)(1)	<p>Widespread transportation electrification requires increased access for disadvantaged communities:</p> <ul style="list-style-type: none"> • (a) (1) The Legislature finds and declares all of the following:... (C) Widespread transportation electrification requires increased access for disadvantaged communities, low- and moderate-income communities, and other consumers of zero-emission and near-zero-emission vehicles, and increased use of those vehicles in those communities and by other consumers to enhance air quality, lower greenhouse gases emissions, and promote overall benefits to those communities and other consumers. 	None

Table 2: Statutory Requirements for the CEC, CARB, and CAISO Related to Disadvantaged Communities

Statutory Code Section	Requirement(s)	Statutory Deadline
PU Code Section 359.5(e)(1)	<p>CAISO regional markets impact study to include impacts on disadvantaged communities:</p> <ul style="list-style-type: none"> • The Independent System Operator conducts 	2016

Statutory Code Section	Requirement(s)	Statutory Deadline
	<p>one or more studies of the impacts of a regional market enabled by the proposed governance modifications, including overall benefits to ratepayers, including the creation or retention of jobs and other benefits to the California economy, environmental impacts in California and elsewhere, <i>impacts in disadvantaged communities</i>, emissions of greenhouse gases and other air pollutants, and reliability and integration of renewable energy resources. The modeling, including all assumptions underlying the modeling, shall be made available for public review. <i>(Emphasis added)</i></p>	
Section 25310 (e)(2) of the Public Resources Code	<p>Integrated Energy Policy Report must include strategies for maximizing energy efficiency savings contributions in disadvantaged communities:</p> <ul style="list-style-type: none"> Beginning with the 2019 edition of the integrated energy policy report and every two years thereafter, the commission shall provide recommendations and an update on progress toward achieving a doubling of energy efficiency savings in electricity and natural gas final end uses of retail customers by January 1, 2030...The [CEC] shall also include ...Specific strategies for, and an update on, progress toward maximizing the contribution of energy efficiency savings in disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code. 	2019
Section 25327 (a)(4)(b) of the	CEC study on barriers/opportunities for solar/renewable energy by low-income	January 1, 2017

Statutory Code Section	Requirement(s)	Statutory Deadline
Public Resources Code	<p>customers and small businesses in disadvantaged communities:</p> <ul style="list-style-type: none"> On or before January 1, 2017, the [CEC], with input from relevant state agencies and the public, shall conduct and complete a study on both of the following: <ol style="list-style-type: none"> Barriers to, and opportunities for, solar photovoltaic energy generation as well as barriers to, and opportunities for, access to other renewable energy by low-income customers. Barriers to contracting opportunities for local small businesses in disadvantaged communities. 	
Section 25327 (a)(4)(c) of the Public Resources Code	<p>CEC study on barriers/opportunities for EE/weatherization for low income customers:</p> <ul style="list-style-type: none"> On or before January 1, 2017, the [CEC], with input from relevant state agencies and the public, shall develop and publish a study on barriers for low-income customers to energy efficiency and weatherization investments, including those in disadvantaged communities, as well as recommendations on how to increase access to energy efficiency and weatherization investments to low-income customers. 	January 1, 2017

Statutory Code Section	Requirement(s)	Statutory Deadline
Section 25327 (a)(4)(d) of the Public Resources Code:	<p>CARB study on barriers/opportunities for zero emission vehicles for low income customers:</p> <ul style="list-style-type: none"> On or before January 1, 2017, the State Air Resources Board, in consultation with the commission and with input from relevant state agencies and the public, shall develop and publish a study on barriers for low-income customers to zero-emission and near-zero-emission transportation options, including those in disadvantaged communities, as well as recommendations on how to increase access to zero-emission and near-zero-emission transportation options to low-income customers, including those in disadvantaged communities. 	January 1, 2017

While we do not anticipate addressing all of the above requirements in Tables 1 and 2 in this proceeding, there are two that apply specifically in the context of integrated resource planning. Those are as follows. Public Utilities Code Section 454.52(a)(1)(F) states:

“Commencing in 2017, and to be updated regularly thereafter, the commission shall adopt a process for each load-serving entity [LSE], as defined in Section 380, to file an integrated resource plan, and a schedule for periodic updates to the plan, to ensure that load-serving entities do the following: (F) *strengthen the diversity, sustainability, and resilience of the bulk transmission and distribution systems, and local communities.*”
[emphasis added]

Public Utilities Code Section 454.52(a)(1)(H) adds that the LSEs will:

“Minimize localized air pollutants and other greenhouse gas emissions, with early priority on disadvantaged communities

identified pursuant to Section 39711 of the Health and Safety Code.”

In addition, the Commission has issued recent guidance on related issues in Decision (D.) 16-05-050, as modified by D.16-12-030, in response to Southern California Edison’s application for approval of the results of its requests for offers (RFOs) for local capacity in the Moorpark area. In D.16-12-030, modifying D.16-05-050, the Commission stated as follows:

“In future procurement applications, we should endeavor to more explicitly consider environmental justice issues in our review of proposed procurement contracts. However, in order to more efficiently and effectively do that, utility procurement applications should include sufficient information regarding the consideration of this criteria in the RFO process. The Commission’s long-term procurement plan (LTPP) proceeding (a Rulemaking proceeding applicable to the industry as a whole) is an appropriate forum to address the type of information the utilities must provide and give further guidance on this issue. The Commission recently opened Rulemaking (R.) 16-02-007 to Develop an Electricity Integrated Resource Planning Framework and to Coordinate and Refine Long-Term Procurement Planning Requirements. The preliminary scope of R.16-02-007 includes potential procurement rule changes. Additional environmental justice rules or guidance should delineate between the role of this Commission in evaluating the reasonableness of a procurement contract, as opposed to the role of the CEC for purposes of its [California Environmental Quality Act] CEQA-equivalent environmental review. And while we recognize that case specific considerations make it difficult to weigh all proposed procurement contracts with complete uniformity, further guidance should be developed concerning the appropriate balance between issues such as: the policy favoring Brownfield sites; environmental justice considerations; other economic considerations, and grid reliability.”¹

¹ See D.16-12-030 at 29, amending original text in D.16-05-050 at 19.

The requirements described above are diverse, representing multiple aspects of potential policies to address the impact of the energy sector on disadvantaged communities. Some requirements are at the planning level, while others address electricity procurement practices. Still others represent the performance of the actual generation procured, once it is operational. Some requirements are also intermingled with requirements related to the transmission and distribution grid. Some requirements could be interpreted to apply to the Commission itself while others clearly apply to the Load Serving Entities (LSEs), based on requirements that the Commission would impose in the Integrated Resource Planning (IRP) process.

For purposes of this ruling, we are most focused on the requirements in Public Utilities Code Section 454.52(a)(1) related to disadvantaged communities in the IRP process, as well as the guidance from the Commission in D.16-05-050, as modified by D.16-12-030, while keeping the larger context in mind.

In response to the Public Utilities Code Section 454.52(a)(1) and D.16-12-030 requirements above, we have a number of questions to which we request parties respond, to help us identify and design the most appropriate and effective options for addressing issues related to the impact of the energy sector on disadvantaged communities in the IRP and procurement processes.

2.1. Questions related to disadvantaged communities in IRP

General Questions

1. Should the Commission expand the definition of “disadvantaged communities” to include underserved communities who do not currently qualify under Section 39711 of the Health and Safety Code as specified in SB 350? If so, what metrics should be used to identify these communities?

- a. Is it appropriate to use different definitions depending on the context (for example, in some low-income energy programs such as the California Alternative Rates for Energy, program eligibility is determined by individual factors; in contrast, the IRP requirements identify a broader community scale for which a tool such as CalEnviroScreen may be useful)? Why or why not?
 - b. Should “local communities” referenced in Public Utilities Code Section 454.52(a)(1)(F) be defined differently from “disadvantaged communities” generally? Why or why not?
2. How should the Commission coordinate the IRP and procurement-related requirements related to impacts on disadvantaged communities with the other statutory requirements in other energy resource areas?
3. How should disadvantaged communities be considered in the context of the IRP statutory requirements and process?
4. How should the Commission identify, track, and measure the effectiveness of its activities with respect to disadvantaged communities?
5. What should be the relationship between the activities of the other agencies and entities (CEC, CARB, CAISO) and our work on disadvantaged communities issues? To the extent possible, please be specific about what activities are underway that should be coordinated. For example, the CEC adopted a “Low Income Barriers Study” at its December 14, 2016 business meeting that contains several recommendations that could relate to our activities in this IRP proceeding.²

² The CEC’s study titled “Low-Income Barriers Study, Part A: Overcoming Barriers to Energy Efficiency and Renewables for Low-Income Customers and Small Business Contracting Opportunities in Disadvantaged Communities,” is available at the following link: <http://docketpublic.energy.ca.gov/PublicDocuments/16-OIR->

Footnote continued on next page

6. How should the Commission's jurisdictional utilities be required to consider impacts on disadvantaged communities during their procurement activities?
7. What specific requirements should the Commission impose on its jurisdictional entities to address air quality, environmental, and/or economic impacts on disadvantaged communities from energy sector activities? Be as specific as possible.
8. How should the IRP process coordinate with ongoing proceedings that develop policies and programs that impact disadvantaged communities, such as energy efficiency, distributed generation, electric vehicles, research, etc.?

Questions related to Public Utilities Code Section 454.52(a)(1)(F)

9. What requirements should the Commission impose on LSEs to ensure that they meet the statutory requirements that they "strengthen the diversity, sustainability, and resilience of... local communities?"
10. How should an LSE be asked to demonstrate that its IRP will "strengthen the diversity, sustainability, and resilience of ... local communities?"
 - a. Specify whether the LSEs' activities should occur as part of a technical planning process, public engagement process, procurement process, or some other aspect of the IRP process.
 - b. Should LSE activity utilize an existing process or a new one? Describe in detail.
 - c. Should the LSEs' showings be required to be qualitative, quantitative, or both? Describe in as much detail as possible.

11. Should all LSEs required to file IRPs also be required to demonstrate the conditions of 454.52(a)(1)(F) are met? If not, what criteria should the Commission use to differentiate among LSEs?

Questions Related to Public Utilities Code Section 454.52(a)(1)(H)

12. What requirements should the Commission impose on LSEs to ensure that they meet the statutory requirements to “minimize localized air pollutants and other greenhouse gas emissions, with early priority on disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code?”
13. How should an LSE be asked to demonstrate that its IRP will “minimize localized air pollutants and other greenhouse gas emissions, with early priority on disadvantaged communities identified pursuant to Section 39711 of the Health and Safety Code?”
- a. Specify whether the LSEs’ activities should occur as part of a technical planning process, public engagement process, procurement process, or some other aspect of the IRP process.
 - b. Should LSE activity utilize an existing process or tool such as CalEnviroScreen, or a new one? Describe in detail.
 - c. Should the LSEs’ showings be required to be qualitative, quantitative, or both? Describe in as much detail as possible.
14. How should the Commission respond and what should be the consequences if an LSE fails to demonstrate that it has satisfied the requirements of SB 350 with respect to disadvantaged communities?
15. Should all LSEs required to file IRPs also be required to demonstrate the conditions of 454.52(a)(1)(H) are met? If not, what criteria should the Commission use to differentiate among LSEs?

3. Issues Related to the Transmission and Distribution System and Demand-Side Management

The IRP sections of SB 350 contain several requirements related to the transmission and distribution grid, as well as demand-side management. The two provisions are contained in Public Utilities Code Section 454.52(a)(1), subsections (F) and (G), which require as follows:

“Commencing in 2017, and to be updated regularly thereafter, the commission shall adopt a process for each load-serving entity [LSE], as defined in Section 380, to file an integrated resource plan, and a schedule for periodic updates to the plan, to ensure that load-serving entities do the following:

(F) *strengthen the diversity, sustainability, and resilience of the bulk transmission and distribution systems, and local communities.*
[emphasis added]

(G) enhance distribution systems and demand-side energy management.”

In response to the requirements above, we have a number of questions to which we request parties respond, to help us identify and design the most appropriate and effective options for addressing IRP requirements related to the transmission and distribution grid and demand-side management. Parties are also welcome to comment on any other aspect of these topics, instead of or in addition to responding to the specific questions posed.

3.1. Questions related to the transmission and distribution system and demand-side management

1. Should the term “distribution systems” in Public Utilities Code Sections 454.52(a)(1)(F) and (G) be defined in the same manner? Or should a distinction be made between the distribution system in subsection (F) and the distribution system in subsection (G)? Explain your rationale.

2. How should “demand-side energy management” in subsection (G) be defined, interpreted, and applied?
3. How should the activities in the context of IRP in this proceeding be coordinated with ongoing work on:
 - a. integrated distributed energy resources (IDER) in rulemaking (R.14-10-003), and
 - b. the distribution resources planning rulemaking (R.14-08-013)?
4. How should the requirements of Public Utilities Code Sections 454.52(a)(1)(F) and (G) relate to the Commission’s ongoing work in the areas of energy efficiency, demand response, storage, distributed generation, and electric vehicles? Is there something additional that should be required in the context of SB 350’s IRP requirements? Describe.
5. Is there a distinction to be made between ongoing program-related efforts on “demand-side energy management” and the new SB 350 related requirements? Describe your recommended approach.

Questions Related to Public Utilities Code Section 454.52(a)(1)(F)

6. What requirements should the Commission impose on LSEs to ensure that they meet the statutory requirements that they “strengthen the diversity, sustainability, and resilience of the bulk transmission and distribution systems?”
7. How should an LSE be asked to demonstrate that its IRP will “strengthen the diversity, sustainability, and resilience of the bulk transmission and distribution systems?”
 - a. Specify whether the LSEs’ activities should occur as part of a technical planning process, public engagement process, procurement process, or some other aspect of the IRP process.

- b. Should LSE activity utilize an existing process or a new one? Describe in detail.
 - c. Should the LSEs' showings be required to be qualitative, quantitative, or both? Describe in as much detail as possible.
8. Should all LSEs required to file IRPs also be required to demonstrate the conditions of 454.52(a)(1)(F) are met? If not, what criteria should the Commission use to differentiate among LSEs?

Questions Related to Public Utilities Code Section 454.52(a)(1)(G)

9. What requirements should the Commission impose on LSEs to ensure that they meet the statutory requirements that they "enhance distribution systems and demand-side energy management?"
10. How should an LSE be asked to demonstrate that its IRP will "enhance distribution systems and demand-side energy management?"
- a. Specify whether the LSEs' activities should occur as part of a technical planning process, public engagement process, procurement process, or some other aspect of the IRP process.
 - b. Should LSE activity utilize an existing process or a new one? Describe in detail.
 - c. Should the LSEs' showings be required to be qualitative, quantitative, or both? Describe in as much detail as possible.
11. Should all LSEs required to file IRPs also be required to demonstrate the conditions of 454.52(a)(1)(G) are met? If not, what criteria should the Commission use to differentiate among LSEs?

4. Proceeding Schedule

The scoping memo issued in this proceeding in May 2016 laid out a number of activities that have occurred, some in modified form, over the course

of 2016. Because our approach and activities have been evolving, it is timely to summarize our expected revised schedule going forward in late 2016 and most of 2017 in this proceeding. The table below lays out the expected activities and schedule.

Activity/Event	Schedule
Assigned Commissioner's and ALJ Ruling on Disadvantaged Communities and other aspects of SB 350 (this ruling)	December 21, 2016
ALJ ruling seeking comment on draft 2017 Assumptions and Scenarios for use in CAISO transmission planning process (TPP) (in keeping with CEC and CAISO agreements on process alignment from prior proceedings)	January 18, 2017
Comments due on 2017 Assumptions and Scenarios for CAISO TPP	February 3, 2017
Reply comments due on 2017 Assumptions and Scenarios for CAISO TPP	February 10, 2017
Comments on questions in this ruling on disadvantaged communities and grid issues	February 17, 2017
Reply comments on disadvantaged communities and grid issues	February 27, 2017
Assigned Commissioner's Ruling adopting 2017 Assumptions and Scenarios for CAISO TPP	Early March 2017
Staff Proposal: Guidance on 2017 IRP process and contents	March 2017
<u>Workshop</u> : 2017 IRP process and contents	March 2017
Report on results of 21 st Century California Energy Systems (CES 21) work	First Quarter 2017
<u>Workshop</u> : CES 21 Results	First or Second Quarter 2017
Party comments on CES 21 Results	Second Quarter 2017
CARB finalizes electric sector greenhouse gas emissions reduction target(s)	Spring 2017
Staff Proposal: Proposed Reference Plan	May 2017
<u>Workshop</u> : Proposed Reference Plan	May 2017
Party comments on Proposed Reference Plan	June 2017
Proposed Decision: Adopting guidance for 2017 IRP filings	August 2017
Final Decision: Adopting guidance for 2017 IRP filings	September 2017

LSEs conduct analysis/modeling to support individual IRP filings	Fall 2017
IRP filings by LSEs in individual applications	End of 2017
IRPs modified/adopted by Commission decision with any associated procurement authorized (if proposed). Includes endorsement of Preferred Plan by Commission	Mid-late 2018

IT IS ORDERED that:

1. Interested parties may file and serve responses to the questions in Sections 2.1 and 3.1 of this ruling, and comment on any other issues associated with the topics of this ruling, by no later than February 17, 2017.
2. Interested parties may file and serve replies to other parties' comments in response to this ruling by no later than February 27, 2017.
3. The schedule for this proceeding is updated as specified in Section 4 of this ruling.

Dated December 21, 2016, at San Francisco, California.

/s/ LIANE M. RANDOLPH

Liane M. Randolph
Assigned Commissioner

/s/ JULIE A. FITCH

Julie A. Fitch
Administrative Law Judge